Analyst Internship Test
Questionnaire- IN14
All Questions are (Numerical Answer Type)

Question 01. A hedge fund starts with $250 billion in assets under management (AUM). In the first quarter, it experienced a 12% loss. In the second quarter, it sees a 15% gain on its new AUM. What is the AUM in billions of dollars at the end of the second quarter?

Question 02. A high-frequency trading algorithm executes 2.5 million trades in an 8-hour trading day. If the average profit per trade is $0.07, what is the total profit in dollars for the day?

Question 03. A company's market capitalization grew from $50 billion to $1.2 trillion. By what factor did the company's market cap increase?

Question 04. A country has a GDP of $22 trillion and a population of 350 million. If the GDP grows by 4% and the population grows by 1.5%, what is the approximate new GDP per capita?

Question 05. A data analytics team can process 500 terabytes of data in 6 hours. How many hours would it take the team to process 1.2 petabytes of data? (1 petabyte = 1000 terabytes)

Question 06. An investment portfolio is valued at $5.2 million. 30% is invested in stocks, 45% in bonds, and the rest in real estate. If the stock portion gains 15% in value, and the bond portion loses 5% in value, what is the new total value of the portfolio in millions of dollars?

Question 07. A global logistics company ships 40 million packages a day. If 0.025% of these packages are lost, how many packages are lost over a 30-day period?

Question 08. A company issues a $100 million bond with an annual coupon rate of 4.5%. How much interest, in dollars, does the company pay to bondholders every six months?

Question 09. A proprietary trading firm uses an algorithm that has a 55% win rate. If the firm makes 200 trades, and the average winning trade is $1,500 and the average losing trade is $1,200, what is the expected net profit in dollars?

Question 10. A company's revenue is $7.5 billion, and its net income is $900 million. What is the company's net profit margin as a percentage?